

File 347: JAPI O Dec 1976-2007/Dec(Updated 080328)

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File 350: Derwent WPI X 1963-2008/UD=200820

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Set	Items	Description
S1	3585820	STATE? ? OR STATUS OR CONDITION? ?
S2	364658	S1(5N)(COMPUTER? ? OR PROCESS?R? ? OR MICROCOMPUT? OR MICROPROCESS? OR SLAVE? ? OR NODE? ? OR THREAD? ? OR DEVICE? ? OR UNIT OR UNITS OR STATION? ? OR TERMINAL? ? OR CLIENT? ? OR LINK? ?)
S3	61642	SCHEDUL???
S4	4047	S3(5N)(MASTER? ? OR CONTROLLER? ? OR CONTROLLER? ? OR COORDINAT?R? ? OR COORDINAT?R? ? OR SERVER? ? OR BROKER? ? OR HUB OR ADMINISTRATOR? ?)
S5	5846	SCHEDULER? ?
S6	29290	(PRINCIPAL OR LEADER OR LEAD OR CHIEF OR ALPHA OR PARENT OR PRIMARY OR MAIN OR CENTRAL)(1W(COMPUTER? ? OR PROCESS?R? ? OR MICROCOMPUT? OR MICROPROCESS?))
S7	76	S3(5N)S6
S8	44778	UPLOAD? OR DOWNLOAD? OR (UP OR DOWN)()LOAD???
S9	10370940	DELIVER? OR DISTRIBUT? OR PROVIDE OR PROVIDES OR PROVIDED - OR PROVIDING OR PROVIDION? ?
S10	266784	IMPORT? ? OR IMPORTED OR IMPORTING OR IMPORTATION? OR ACQUISITION? ? OR ACQUIR???
S11	3882829	TRANSFER?? OR TRANSFERR?? OR SEND?? OR SENT OR TRANSMISSION? ? OR TRANSMIT? OR RETRIEV??
S12	1028220	S8:S11(5N)(DATA OR OBJECT? ? OR CONTENT? ? OR AUDIO DATA OR VIDEO DATA OR IMAGE DATA OR MEDIA DATA OR TEXT DATA OR MEDIA OR MULTIMEDIA OR VIDEO? ?)
S13	57142	S8:S11(5N)(FILE? ? OR DATA FILE? ? OR COMPUTER FILE? OR AUDIO FILE? OR VIDEO FILE? OR IMAGE FILE? OR MEDIA FILE? OR TEXT FILE? OR MUSIC FILE?)
S14	189299	BETWEEN(1W(SLAVE? ? OR NODE? ? OR THREAD? ? OR DEVICE? ? OR UNIT OR UNITS OR STATION? ? OR TERMINAL? ? OR CLIENT? ? OR LINK? ?)
S15	392060	(ANOTHER OR DIFFERENT OR SECOND? OR 2ND OR THIRD OR 3RD OR OTHER)(1W(SLAVE? ? OR NODE? ? OR THREAD? ? OR DEVICE? ? OR UNIT OR UNITS OR STATION? ? OR TERMINAL? ? OR CLIENT? ? OR LINK? ?)
S16	131920	REDIRECT? OR RE()DIRECT?? OR REFER?? OR REFERRING OR REFERRING OR REFERRED
S17	4196	S16(5N)(S5:S6 OR MASTER? ? OR CONTROLLER? ? OR CONTROLLER? ? OR COORDINAT?R? ? OR COORDINAT?R? ? OR SERVER? ? OR BROKER? ? OR HUB OR ADMINISTRATOR? ?)
S18	322	S2 AND S17
S19	6164	S3(10N)S12:S13
S20	1	S18 AND S19
S21	1	S18 AND S3(10N)S14:S15
S22	412	S2 AND S19
S23	90	S22 AND S14:S15
S24	38	S23 AND (S4:S5 OR S7)
S25	39	(S21 OR S24) NOT S20
S26	19	S25 AND PY=1963:2003
S27	24	S25 AND AY=1963:2003 AND AC=US
S28	24	S26:S27

? t 28/ 69, k/ 2, 4, 10-11, 20

**28/ 69, K/ 2 (Item 2 from file: 350)**

DI ALOG(R) File 350: Derwent WPI X

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0014672139 - Drawing available

WPI ACC NO: 2005-019720/200502

XRPX Acc No: N2005-016705

**Semi-distributed scheduler for scheduling calls in CDMA communications system, has scheduling units in base station controller and base transceiver stations to schedule calls associated with multi user states**

Patent Assignee: FONG M (FONG-I); VRZIC S (VRZIC-I)

Inventor: FONG M; VRZIC S

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20040228349	A1	20041118	US 2003439239	P	20030110	200502 B
			US 2004751951	A	20040107	

Priority Applications (no., kind, date): US 2003439239 P 20030110; US 2004751951 A 20040107

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040228349	A1	EN	19	4	Related to Provisional US 2003439239

#### Alerting Abstract US A1

NOVELTY - The **scheduler** has a base station **controller** (BSC) (241) and base transceiver stations (BTS) (211, 213) that provide communication links **between** mobile **stations** and a wireline telephone network. Scheduling units reside in the base station controller and the base transceiver stations for scheduling the calls of the mobile stations associated with soft handoff (SHO), and non soft handoff (NSHO) user states, respectively.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. a method for scheduling calls in a wireless communications system
2. a wireless communications system having semi-distributed scheduler .

USE - Used for scheduling calls in a code division multiple access (CDMA) communications system

ADVANTAGE - The **scheduler** schedules both the soft handoff (SHO) and non-soft handoff (NSHO) user **states** for transmission on the reverse **link**, while **at** the same time maximizes throughput **and** ensures the stability of the system. The **scheduler** thus allocates available resources properly regardless of **the** delay sensitive mobile stations and hence ensures some degree of fairness among the different users.

DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of a wireless communication system that can operate in accordance with a semi-distributed **scheduler** .

- 211, 213 Base transceiver stations
- 215, 243 Scheduling units
- 221, 223 and 225 Mobile stations
- 231 Public switch telephone network
- 241 Base station controller

**Title Terms/Index Terms/Additional Words:** SEMI; DISTRIBUTED; SCHEDULE; CALL; CDMA; COMMUNICATE; SYSTEM; UNIT; BASE; STATION; CONTROL; TRANSCEIVER; ASSOCIATE; MULTI; USER; STATE

#### Class Codes

International Classification (Main): H04L-012/28

US Classification, Issued: 370395.4

File Segment: EPI;

DWPI Class: W01; W02

Manual Codes (EPI/S-X): W01-B05A1A; W02-C03C1A; W02-C03C1D; W02-C03C1G

**Semi-distributed scheduler for scheduling calls in CDMA communications system, has scheduling units in base station controller and base**

transceiver stations to schedule calls associated with multi user states

**Alerting Abstract** ... NOVELTY - The **scheduler** has a base station controller (BSC) (241) and base transceiver stations (BTS) (211, 213) that provide communication links **between** mobile **stations** and a wireline telephone network. Scheduling units reside in the base station controller and the...

...for scheduling calls in a wireless communications system a wireless communications system having semi-distributed **scheduler** .

...

... ADVANTAGE - The **scheduler** schedules both the soft handoff (SHO) and non-soft handoff (NSHO) user **states** for transmission on the reverse link, while at the same time maximizes throughput and ensures the stability of the system. The **scheduler** thus allocates available resources properly regardless of **the** delay sensitive mobile stations and hence ensures some degree of fairness among the different users...

... diagram of a wireless communication system that can operate in accordance with a semi-distributed **scheduler** .

## Original Publication Data by Authority

### Original Abstracts:

In wireless communications systems, the Base Station Controller (BSC) and Base Transceiver Stations (BTSs) have **schedulers** which **schedule** soft handoff (SHO) users and non-soft handoff (NSHO) users regardless of delay sensitive users. The BSC's **scheduler** prioritizes the SHO **users** and calculates the available capacity at each sector. Then, with assigned data rates according to the priority, the available capacity is updated by the BSC's **scheduler** . The BTS's **scheduler** calculates the available **capacity** at the sector and with assigned data rates according to the priority of the NSHO users, the available capacity is updated. Based on the updated available capacity, packet **data** is transmitted at **the scheduled data** rate in **the reverse** link. With the **schedules** processed separately by **the** BSC and BTS, the multi-user diversity of **states** on the reverse **link** of wireless communications **is** efficiently supported.

### Claims:

What is claimed is: <b>1</b>. A semi-distributed **scheduler** for scheduling calls in a wireless communications system **wherein** a Base Station **Controller** for controlling various operating aspects of the system and a Base Transceiver Station provides communication links **between** mobile **stations** and **between** the mobile stations and a wireline telephone network, **the** mobile **stations** being associated with multi-diversity of user **states**, **the scheduler** scheduling the reverse communication **links** based on the **parameters** of the system, **the scheduler** comprising: means for **scheduling** in the Base Station **Controller** and the Base Transceiver Station **in** accordance with types of **the** user **states** associated with **mobile** **stations**.

28/ 69, K/ 4 (Item 4 from file: 350)

DI ALOG (R) File 350: Derwent WPI X

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0014494045 - Drawing available

WPI ACC NO: 2004- 674355/ 200466

XRPX Acc No: N2004- 534209

**Broadcast automation system integration** controller, has scheduling system interface managing communication **between** scheduling system and controller server, **where** controller **is** reconfigurable to exhibit selected functions

Patent Assignee: GENERAL ELECTRIC CO (GENE)  
Inventor: AMARAL J E S; ANGELOVICH S J; CALLAHAN M K; GOLDFARB H; HAMMOND C R; HENDERSON D L; KENNY K B; KINSTREY M A; MINERVA R A; SARACHAN B D; SCHMIDT A J

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6792469	B1	20040914	US 1999125556	P	19990322	200466 B
			US 2000531864	A	20000321	

Priority Applications (no., kind, date): US 1999125556 P 19990322; US 2000531864 A 20000321

**Patent Details**

Number	Kind	Lang	Pg	Dwg	Filing Notes
US 6792469	B1	EN	11	5	Related to Provisional US 1999125556

**Alerting Abstract** US B1

NOVELTY - The controller (100) has an integration controller server distributing events to device drivers, user interface and a log manager. The server collects and sends an execution status to the user interface, the log manager and an event scheduling system (102). A scheduling system interface (104) manages communication between the system and the server. The controller is dynamically reconfigurable to exhibit selected functions.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. a method for controlling digital video and audio using an integration controller for managing scheduling, playback and media management of in response to an event-based playback schedule
2. a system for controlling digital video and audio using at least one integration controller for managing scheduling, playback and media management in response to an event-based playback schedule.

USE - Used for managing scheduling, playback and media management in response to an event-based playback schedule (claimed) in a broadcast automation system that is utilized for controlling digital video and audio stream utilized as television signal.

ADVANTAGE - The controller is dynamically reconfigurable to exhibit selected functions, hence eliminating programming errors and dead air problems of the broadcast automation system

DESCRIPTION OF DRAWINGS - The drawing shows a single Integration Controller decomposed structural and functional units.

- 100 Integration controller
- 102 Scheduling System
- 104 Event Scheduling System interface
- 108 Device driver
- 110 Log driver

**Title Terms/Index Terms/Additional Words:** BROADCAST; AUTOMATIC; SYSTEM; INTEGRATE; CONTROL; SCHEDULE; INTERFACE; MANAGE; COMMUNICATE; SERVE; EXHIBIT; SELECT; FUNCTION

**Class Codes**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

H04L-0029/06 A I R 20060101

H04L-0029/06 C I R 20060101

US Classification, Issued: 709231, 72536

File Segment: EPI;

DWPI Class: T01; W02

Manual Codes (EPI/S-X): T01-N01D1; T01-N01D3; T01-S01B; W02-F10K

**Broadcast automation system integration controller, has scheduling system interface managing communication between scheduling system and controller server, where controller is reconfigurable to exhibit selected functions**

**Alerting Abstract** ...a method for controlling digital video and audio using an integration **controller** for managing **scheduling**, **playback** and media **management** of in response to an event-based playback schedule a system for controlling digital video and audio using at least one integration **controller** for managing **scheduling**, playback and media management in **response** to an event-based playback schedule...

#### **Original Publication Data by Authority**

#### **Original Abstracts:**

...with the necessary timing and hardware information. Each event in the schedule commands the playback or record of a video segment, generation of a special effect, **transfer** of a **video segment** from one **device** to another or **closure** of one or more video switches. Events may be launched automatically at a specified time, or manually by an operator. An Integration **Controller** (IC) communicates with an Event **Scheduling** System via a **Scheduling** System Interface. The Scheduling System Interface communicates **with** the Integration **Controller** via the IC server. The IC server utilizes various modules to communicate with Device Drivers...

#### **Claims:**

What is claimed is: 1. An integration **controller** for managing **scheduling**, playback and media **management** of digital **audio** and video in response to an event-based playback schedule, comprising: a device driver sub...

...diagnostic capabilities during integration controller runtime; at least one user interface for maintaining a plurality of displays for **schedules** organized by start times, channels, current on-air event, next on-air event, event data...

...status, or error conditions, said at least one user interface enabling an operator to query **status** of events, video segments and **devices**, and edit said **status** and events; an integration controller server for distributing a plurality of events to a) said plurality of **device** drivers, b) said at least one user interface, and c) said log manager, said integration controller **server** also collecting and summarizing execution **status** for each said event, and sending said execution status to the at least one user...

...and to an event scheduling system a scheduling system interface for managing communication between a **scheduling** system and said integration **controller server**; and wherein said integration **controller** is dynamically reconfigurable to exhibit **selected** functions.

Basic Derwent Week: 200466

28/69, K/10 (Item 10 from file: 350)

DIALOG(R) File 350: Derwent WPI X

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0011022880 - Drawing available

WPI ACC NO: 2001-648605/ 200174

XRPX Acc No: N2001-484612

**Digital content scheduling method and apparatus for personal communication devices is based on probabilistic modelling system, has a software agent in which the scheduler operates**

Patent Assignee: BRANDENBERG C B (BRAN-I); COTTER R B (COTT-I); KAY R L (KAYR-I); MAXWELL K J (MAXW-I); STICK NETWORKS INC (STIC-N); WIRELESS AGENTS LLC (WRE-N)

Inventor: BRANDENBERG C B; COTTER R B; KAY R L; MAXWELL K J

Patent Family (12 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2001076120	A2	20011011	WO 2001US11055	A	20010404	200174	B
AU 200153161	A	20011015	AU 200153161	A	20010404	200209	E
US 20010048589	A1	20011206	US 1999172675	P	19991220	200209	E
			US 2000745617	A	20001220		
US 20030063072	A1	20030403	US 2000194644	P	20000404	200325	E
			US 2000229235	P	20000831		
			US 2000232063	P	20000912		
			US 2000745617	A	20001220		
			US 2001826448	A	20010404		
US 6665173	B2	20031216	US 1999172675	P	19991220	200382	E
			US 2000745617	A	20001220		
US 20040032393	A1	20040219	WO 2001US11055	A	20010404	200414	E
			US 2002240642	A	20021003		
US 20040174666	A1	20040909	US 1999172675	P	19991220	200459	E
			US 2000745617	A	20001220		
			US 2003655802	A	20030905		
US 6834195	B2	20041221	US 2000194644	P	20000404	200501	E
			US 2000229235	P	20000831		
			US 2000232063	P	20000912		
			US 2000745617	A	20001220		
			US 2001826448	A	20010404		
US 20050043060	A1	20050224	US 2000194644	P	20000404	200515	E
			US 2000229235	P	20000831		
			US 2000232063	P	20000912		
			US 2000745617	A	20001220		
			US 2001826448	A	20010404		
			US 2004959833	A	20041006		
US 7016182	B2	20060321	US 1999172675	P	19991220	200621	E
			US 2000745617	A	20001220		
			US 2003655802	A	20030905		
US 20060227500	A1	20061012	US 1999172675	P	19991220	200667	E
			US 2000745617	A	20001220		
			US 2003655802	A	20030905		
			US 2006349372	A	20060206		
US 20060232921	A1	20061019	US 1999172675	P	19991220	200670	E
			US 2000745617	A	20001220		
			US 2003655802	A	20030905		
			US 2006349372	A	20060206		
			US 2006454029	A	20060616		

Priority Applications (no., kind, date): US 1999172675 P 19991220; US 2000194644 P 20000404; US 2000229235 P 20000831; US 2000232063 P 20000912; US 2000745617 A 20001220; US 2001826448 A 20010404; US 2002240642 A 20021003; US 2003655802 A 20030905; US 2004959833 A 20041006; US 2006349372 A 20060206; US 2006454029 A 20060616

#### Patent Details

Number	Kind	Lang	Pg	Dwg	Filing Notes
WO 2001076120	A2	EN	228	9	
National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200153161	A	EN			Based on OPI patent WO 2001076120
US 20010048589	A1	EN	22		Related to Provisional US 1999172675
US 20030063072	A1	EN			Related to Provisional US 2000194644
					Related to Provisional US 2000229235
					Related to Provisional US 2000232063

US 6665173	B2	EN	C-I-P of application US 2000745617
US 20040032393	A1	EN	Related to Provisional US 1999172675
US 20040174666	A1	EN	PCT Application WO 2001US11055
			Related to Provisional US 1999172675
			Continuation of application US
2000745617			
US 6834195	B2	EN	Continuation of patent US 6665173
			Related to Provisional US 2000194644
			Related to Provisional US 2000229235
			Related to Provisional US 2000232063
US 20050043060	A1	EN	C-I-P of application US 2000745617
			Related to Provisional US 2000194644
			Related to Provisional US 2000229235
			Related to Provisional US 2000232063
			C-I-P of application US 2000745617
			Division of application US 2001826448
US 7016182	B2	EN	C-I-P of patent US 6665173
			Division of patent US 6834195
			Related to Provisional US 1999172675
			Continuation of application US
2000745617			
US 20060227500	A1	EN	Continuation of patent US 6665173
			Related to Provisional US 1999172675
			Continuation of application US
2000745617			
2003655802			Continuation of application US
US 20060232921	A1	EN	Continuation of patent US 6665173
			Continuation of patent US 7016182
			Related to Provisional US 1999172675
			Continuation of application US
2000745617			
2003655802			Continuation of application US
2006349372			Continuation of application US
			Continuation of patent US 6665173
			Continuation of patent US 7016182

#### **Alerting Abstract WO A2**

**NOVELTY** - The software schedule agent is based on probabilistic modelling system and resides on a communication network and/or other end user client devices. It determines which items of digital contents would be relevant or interest to which user and then transmitted to the appropriate client devices. An electronic digital content wrapper, holds the information related to the digital content used for distribution and the presentation of digital content.

**DESCRIPTION** - **INDEPENDENT CLAIMS** are also included for

1. An analogue responder for entering a response into a wireless communication appliance has a display and a micro processor.
2. A communication network with portable wireless communication devices issued to the network subscribers located in different geographic locations.

**USE** - For Personal communication devices such as , laptop computer, palmtop computer, personal digital assistant, mobile phone, computer keyboard and global positioning device and other wireless communication appliance, television set top boxes or other end user client devices.

**ADVANTAGE** - The method provides a tool with which the user can play an active role in the distribution and the presentation of digital data. The contextual digital contents profiles and contextual user profiles are

continuously updated. The rating procedure allows the user to play an active role in the systematic **scheduling** of digital **content** presented and **provides** valuable opinion **information** without intruding **into** the user's experience.

DESCRIPTION OF DRAWINGS - The drawing shows a simplified view of a location-aware wireless communication appliance and related network system

**Title Terms**/Index Terms/Additional Words: DIGITAL; CONTENT; SCHEDULE; METHOD; APPARATUS; PERSON; COMMUNICATE; DEVICE; BASED; PROBABILITY; MODEL; SYSTEM; SOFTWARE; AGENT; OPERATE

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G01S-0005/02	A	I	R	20060101
G01S-0005/14	A	I	R	20060101
G06F-0001/16	A	I	F B	20060101
G06F-0001/16	A	I	R	20060101
G06F-0017/30	A	I	R	20060101
G06Q-0030/00	A	I	R	20060101
G09G-0005/00	A	I	R	20060101
H04L-0012/56	A	I	R	20060101
H04L-0029/06	A	I	R	20060101
H04L-0029/08	A	N	R	20060101
H04M-0001/02	A	I	R	20060101
H04M-0001/725	A	N	R	20060101
H04Q-0007/38	A	N	R	20060101
G01S-0005/02	C	I	R	20060101
G01S-0005/14	C	I	R	20060101
G06F-0001/16	C	I	F B	20060101
G06F-0001/16	C	I	L B	20060101
G06F-0001/16	C	I	R	20060101
G06F-0017/30	C	I	R	20060101
G06Q-0030/00	C	I	R	20060101
G09G-0005/00	C	I	R	20060101
H04L-0012/56	C	I	R	20060101
H04L-0029/06	C	I	R	20060101
H04L-0029/08	C	N	R	20060101
H04M-0001/02	C	I	R	20060101
H04M-0001/72	C	N	R	20060101
H04Q-0007/38	C	N	R	20060101

US Classification, Issued: 361683, 361680, 361681, 345173, 345156, 361680, 361683, 455558, 455557, 361683, 361683, 361680, 361681, 361680, 361683, 345905, 34984, 400682, 312223.1, 455456.3, 455456.1, 455456.6, 455414.3, 455414.2, 340994, 340998, 340539.11, 361683, 361680, 361681, 345169

File Segment: EngPI; EPI;

DWPI Class: T01; ~~W01~~; ~~W02~~; P85

Manual Codes (EPI/S-X): T01-C02B1D; T01-F02A; T01-F05C; T01-J12; T01-M06A1A; ~~W01~~-B05A1A; ~~W02~~-C03C1A

...communication devices is based on probabilistic modelling system, has a software agent in which the scheduler operates

**Alerting Abstract** ...updated. The rating procedure allows the user to play an active role in the systematic **scheduling** of digital **content** presented and **provides** valuable opinion **information** without intruding **into** the user's experience...

**Original Publication Data by Authority**

**Original Abstracts:**



...disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. **Digital** content is generated, organized, and stored on the communication network and/or the client devices...

...constrained random variation. After the software scheduling agent determines which items of digital content would **most** likely be relevant or interesting to **the** user, the digital **content** is **transmitted**, either in whole or in part, at predetermined times over the communication network to the...

...or client device, such as location-aware wireless communication appliances, television set top boxes, or **other** end user client devices is disclosed. The software scheduling agent is part of a probabilistic modelling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, **and** stored on the communication network and/or the client devices. An electronic digital content wrapper...

...software scheduling agent determines which items of digital content would most likely be relevant or **interesting** to the user, the digital **content** is **transmitted**, either in whole or in part, at predetermined times over the communication network to the...

...disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network and/or the client **devices**. An electronic digital content wrapper, which holds information in the form of data and metadata...of digital content would most likely be relevant or interesting to the user, the digital **content** is **transmitted**, either **in** whole or in part, at predetermined times over the communication network to the appropriate client...

...disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network and/or the **client devices**. An electronic digital content wrapper, which holds information in the form of data and metadata related to the digital **content** is associated with each item of digital content. Contextual profiles for each user and each...

...disclosed. The software scheduling agent is part of a probabilistic modelling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored...

...metadata related to the digital content is associated with each item of digital content. Contextual **profiles** for each user and each item of digital content are established by the users and...

#### **Claims:**

...the keyboard is at least partially concealed by the display portion when the hand-held **device** is in a closed **state**, and wherein **the** keyboard is exposed when the hand-held **device** is in an open **state**; and at least one coupling between the body portion and the display portion back surface...

...the coupling is concealed by the display portion when the display is viewed with the **device** in either the closed **state** or the open state, and wherein the coupling allows the display portion to move relative

Basic Derwent Week: 200174

DI ALOG(R) File 350: Derwent WPI X  
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0010840681 - Drawing available  
WPI ACC NO: 2001-458835/ **200150**  
XRPX Acc No: N2001-340162

**Wireless communication system has master station which sends scheduled transmission band assignment to slave station using band assignment packet**  
Patent Assignee: ANDO K (ANDO-I); HAYASHI NO H (HAYA-I); IMAI H (IMAI-I);  
MATSUSHI TA DENKI SANGYO KK (MATU); MATSUSHI TA ELECTRIC IND CO LTD  
(MATU); OM S (OM S-I)

Inventor: ANDO K; HAYASHI NO H; HAYASHI NO Y; IMAI H; OM S

**Patent Family** (8 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1104962	A2	20010606	EP 2000125318	A	20001129	200150 B
JP 2001223716	A	20010817	JP 2000361703	A	20001128	200155 E
EP 1104962	B1	20050518	EP 2000125318	A	20001129	200538 E
DE 60020204	E	20050623	DE 60020204	A	20001129	200543 E
			EP 2000125318	A	20001129	
US 6940831	B1	20050906	US 2000722593	A	20001128	200558 E
US 20050220117	A1	20051006	US 2000722593	A	20001128	200566 E
			US 2005140988	A	20050601	
DE 60020204	T2	20060119	DE 60020204	A	20001129	200612 E
			EP 2000125318	A	20001129	
US 7012902	B2	20060314	US 2000722593	A	20001128	200620 E
			US 2005140988	A	20050601	

Priority Applications (no., kind, date): JP 1999337119 A 19991129; EP 2000125318 A 20001129

#### Patent Details

Number	Kind	Lang	Pg	Dwg	Filing Notes
EP 1104962	A2	EN	35	21	
Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2001223716	A	JA	21		
EP 1104962	B1	EN			
Regional Designated States, Original: DE FR GB					
DE 60020204	E	DE			Application EP 2000125318 Based on OPI patent EP 1104962
US 20050220117	A1	EN			Division of application US 2000722593
DE 60020204	T2	DE			Application EP 2000125318 Based on OPI patent EP 1104962
US 7012902	B2	EN			Division of application US 2000722593
					Division of patent US 6940831

#### Alerting Abstract EP A2

NOVELTY - A slave station transmits a request for setting communication link to master station using request packet. **Master station scheduler schedules** transmission band assignment including **transmission time and transmission amount of data** to allocate communication line required for **data transmission**. **Master station sends the scheduled** transmission band assignment to slave station using band assignment packet.

DESCRIPTION - A slave station provides **scheduler** with a communication parameter for **data transmission** using request packet. The **scheduler** handles data of different communication types such as constant in **transmission speed and data period (CBR)**, variable in **transmission speed and constant in data period (VBR)**, constant in **transmission speed and variable in data period (ABR)** and variable in **transmission speed and data period (UBR)**. The **master station sends** transmission band assignment **scheduled** by the **scheduler** to slave station using band

assignment packet. Bi directional **data transmission** is carried out between master and slave stations according to the transmission band assignment.

USE - Wireless communication between personal computers and television receivers connected to network.

ADVANTAGE - Optimal data transmission is made by effectively using limited communication resources. The request packet is transmitted by using transmission band in which a communication link has been already set for transmitting station, hence conflict with **other stations** is avoided. Power consumption at receiving station is reduced.

DESCRIPTION OF DRAWINGS - The figure shows wireless communication system

**Title Terms/Index Terms/Additional Words:** WIRELESS; COMMUNICATE; SYSTEM; MASTER; STATION; SEND; SCHEDULE; TRANSMISSION; BAND; ASSIGN; SLAVE; PACKET

### Class Codes

International Classification (Main): H04L-012/56

International Classification (+ Attributes)

IPC + Level Value Position Status Version

H04B-0007/00	A	I	F	B	20060101
H04B-0007/26	A	I	L	R	20060101
H04L-0001/00	A	I	F	R	20060101
H04L-0012/28	A	I		B	20060101
H04L-0012/28	A	I		R	20060101
H04L-0012/56	A	I		B	20060101
H04L-0012/56	A	I		R	20060101
H04L-0007/00	A	I	L	R	20060101
H04Q-0007/36	A	I	L	R	20060101
H04B-0007/00	C	I	L	B	20060101
H04B-0007/26	C	I	L	R	20060101
H04L-0001/00	C	I	F	R	20060101
H04L-0012/28	C	I		B	20060101
H04L-0012/28	C	I		R	20060101
H04L-0012/56	C	I		B	20060101
H04L-0012/56	C	I		R	20060101
H04L-0007/00	C	I	L	R	20060101
H04Q-0007/36	C	I	L	R	20060101

US Classification, Issued: 370395.4, 370310.1, 370348, 370395.43, 370310.1, 370348, 370395.43, 370338

File Segment: EPI;

DWPI Class: W01

Manual Codes (EPI/S-X): W01-A03B; W01-A06; W01-A06G2

**Wireless communication system has master station which sends scheduled transmission band assignment to slave station using band assignment packet**

**Alerting Abstract** ...slave station transmits a request for setting communication link to master station using request packet. **Master** station **scheduler** **schedules** transmission band assignment including **transmission** time and **transmission** amount of **data** to allocate communication line required for **data transmission**. **Master** station sends the **scheduled** transmission band assignment to slave station using band assignment packet. DESCRIPTION - A slave station provides **scheduler** with a communication parameter for **data transmission** using request packet. The **scheduler** handles data of different communication types such as constant in **transmission** speed and **data** period (CBR), variable in **transmission** speed and constant in **data** period (VBR), constant in **transmission** speed and variable in **data** period (ABR) and variable in **transmission** speed and **data** period (UBR). The **master** station **sends** transmission band assignment **scheduled** by the **scheduler** to slave station using band assignment packet. Bi directional **data transmission**

is carried out between master and slave stations according to the transmission band assignment...

...in which a communication link has been already set for transmitting station, hence conflict with other stations is avoided. Power consumption at receiving station is reduced...

## Original Publication Data by Authority

### Original Abstracts:

...can be mixedly transmitted, and a transmission band can be dynamically assigned according to a **state** of data transmission. A master station has a **scheduler** for determining transmission band **assignment** including information about **transmission** timing of **the data**, a **transmission** amount, and a station that is **allowed** to **access**. This **scheduler** regularly carries out **scheduling**, and optimizes the **transmission band** to be assigned dynamically according to the **communication** type of the **data** and a state of **data transmission**. The master **station** gives **transmission** band assignment **determined** by the scheduler to each **slave** station. A **transmitting** station executes **data transmission** (access) to a receiving station based on the **given transmission** band assignment. The **receiving** station gives information about a state of **data** receiving to the **master station**, where the **scheduler** reflects this on **scheduling**.

...burst data can be mixedly transmitted, and a transmission band can be dynamically assigned according to a state of data **transmission**. A **master** station has a **scheduler** for determining a **transmission** band assignment including information about the **transmission** timing of **the data**, a **transmission** amount, and a station that is allowed to access. The **scheduler** regularly carries out **scheduling**, and optimizes the **transmission** band to be assigned dynamically according to the communication type of the **data** and a state of **data transmission**. The master **station** gives a transmission band assignment which is **determined** by the **scheduler** to each **slave** station. A **transmitting** station executes **data transmission** (access) to a **receiving** station based on the given **transmission** band assignment. The **receiving** station gives information about a state of **data** receiving to the **master** station, where the **scheduler** reflects this on **scheduling**.

...can be mixedly transmitted, and a transmission band can be dynamically assigned according to a **state** of **data transmission**. A master station **has** a **scheduler** for determining a transmission band assignment including information about the **transmission** timing of **the data**, a **transmission** amount, and a station that is allowed to access. The **scheduler** regularly carries out **scheduling**, and **optimizes** the **transmission** band to be assigned dynamically according to the communication type of the **data** and a state of **data transmission**. The **master** **station** gives a transmission band assignment which is determined by **the scheduler** to each **slave** **station**. A **transmitting** station executes **data transmission** (**access**) to a receiving station based on the **given** transmission band assignment. The receiving **station** gives information about a state of **data** receiving to the **master** station, where the **scheduler** reflects this on **scheduling**.

...can be mixedly transmitted, and a transmission band can be dynamically assigned according to a **state** of data transmission. A master station has

a scheduler for determining a transmission band assignment including information about the transmission timing of the **data**, a **transmission amount**, and a **station** that is **allowed** to access. The **scheduler** regularly carries out **scheduling**, and optimizes the **transmission band** to be assigned **dynamically** according to the communication type of the **data** and a **state** of **data transmission**. The master **station** gives a transmission band assignment which is determined by the **scheduler** to each **slave station**. A **transmitting station** executes **data transmission** (access) to a receiving station based on the given transmission band assignment. The **receiving station** gives information about a **state** of **data receiving** to the master station, where the **scheduler** reflects this on **scheduling**. >

#### **Claims:**

...hereinafter, master station (10) for managing a wireless network and one or more other wireless **access units** (hereinafter, slave stations (20)) are on the wireless network, and data of one or a...

...and data period) is transmitted between the master station (10) and one of the slave **stations** (20) or **between** the **slave stations** (20), said master station (10) comprising a **scheduler** (15) for regularly determining (**scheduling**) transmission band assignment **including** information about **transmission timing of the data**, a **transmission amount**, and the master station (10) or **any** of the slave **stations** (20) **that** is **allowed** to access, in order to make a request for setting a communication link for **data transmission**, said master station (10) providing said scheduler (15) with a communication parameter for the...

...station (20) providing said scheduler (15) with a communication parameter for the data transmission by **transmitting** a communication parameter for **the data transmission** to said master station (10) by using a **request** packet, said master station (10) giving the **transmission band** assignment **scheduled** by said **scheduler** (15) to said slave station (20) by using a band assignment packet and recognizing the transmission band assignment, and a transmitting station (said **master station** (10) or said slave station (20) that sends the data) and a receiving station...

...die variabel bezüglich der Übertragungsgeschwindigkeit und der Datenperiode ist (UBR), wobei die Masterstation (10) einen **Scheduler** (15) umfasst zum Durchführen des Scheduling durch regelmäßiges Bestimmen der Übertragungsbandzuordnung inklusive Informationen bezüglich Übertragungszeiteinteilung...

...10) oder jeder der Slavestationen (20), der es erlaubt ist, zuzugreifen, </br>wobei die Masterstation (10) **Mittel** umfasst, um dem **Scheduler** (15) Kommunikationsparameter für die Datenübertragung zur Verfügung zu stellen, um eine Anfrage für das Setzen...

...alle oder einen Teil der Übertragungsmenge, der Übertragungsgeschwindigkeit, der Datenperiode und -priorität enthält, die von **jeder** Art (CBR, VBR, ABR, UBR) benötigt wird, </br>wobei die Slavestation (20) **Mittel** umfasst, um dem **Scheduler** (15) einen Kommunikationsparameter für die Datenübertragung zur Verfügung zu stellen, indem Kommunikationsparameter für die Datenübertragung...

...um die Anfrage zu machen zum Setzen der Kommunikationsverbindung für Datenübertragung, der Kommunikation, von Parametern **inklusive** aller oder eines Teils von Übertragungsmenge, Übertragungsgeschwindigkeit, Datenperiode und -priorität, die von jeder der Arten...

...ABR, UBR) benötigt wird, </br>wobei die Masterstation (10) **Mittel** umfasst, um die Übertragungsbandzuordnung, die vom **Scheduler** (15) bestimmt wurde, der Slavestation (20) zu übergeben, indem ein Bandzuordnungspaket verwendet wird und die...

... eingerichtet wird, durch die Übertragungsbandzuordnung, und die bidirektionelle Datenübertragung gemäss der Übertragungsbandzuordnung durchführen, worin die **Übertragungsstation** die Masterstation (10) oder die Slavestation (20) ist, welche die Daten sendet, und die Empfangsstation ...

... wenn die Kommunikationsart, die durch den Kommunikationsparameter angezeigt wird, CBR, VBR oder ABR ist, der **Scheduler** (15) Berechnungsmittel umfasst, um eine Differenz  $T_b$  zwischen einer aktuellen Zeit oder einer Referenzzeit zu...

... Kommunikationsverbindung beendet worden ist, und um zu bestimmen, wann die Differenz  $T_b$  für jede Kommunikationsverbindung **positiv** ist, und wenn ja/  
eine Differenz  $V_{dd}$  zwischen einem Datenmengenparameter zu berechnen, der in dem... is transmitted between the master station (10) and one of the slave stations (20) or **between** the **slave** stations (20) by using one or a combination of: a communication type which is constant...

... type which is constant in transmission speed and variable in data period (ABR); and a **communication** type which is variable in transmission speed and data period (UBR), said **master** station (10) comprising a **scheduler** (15) for **performing scheduling** by **regularly** determining **transmission** band assignment including information about **transmission** timing of the **data**, a **transmission** amount, and the **master** station (10) or any of the slave stations (20) that is **allowed** to access, said master station (10) comprising means for **providing** said **scheduler** (15) with communication parameters for the **data transmission** in order to make a request for setting a communication link for **data transmission**, the **communication** parameters including all or a part of a **transmission amount**, **transmission** speed, **data period** and **priority**, needed by each type (CBR, VBR, ABR, UBR) said slave station (20) comprising means for providing said **scheduler** (15) with a **communication** parameter for the **data transmission** by **transmitting communication** parameters for the **data transmission** to said **master** station (10) by using a request packet in order to make the request for setting...

... transmission speed, data period and priority, needed by each type (CBR, VBR, ABR, UBR) said **master** station (10) **comprising** means for giving the **transmission** band assignment **scheduled** by said **scheduler** (15) to said slave **station** (20) by using a band assignment packet and recognizing the transmission band assignment, and a transmitting station and a receiving station **between** which the communication link is set by said transmission band assignment carrying out bidirectional data...

... wherein the transmitting station is said master station (10) or said slave station (20) that **sends** the **data**, and the receiving **station** is said **master** station (10) or said slave station (20) that receives the **data**, wherein/  
when the communication **type** indicated by said communication parameter is CBR, VBR or ABR, said **scheduler** (15) comprises calculation means to calculate a difference  $T_b$  **between** a present time or a **reference time**, which is a **transmission** time of the assigned transmission band, and a time when data transmission on each communication ...

... between a data amount parameter included in said communication parameter and indicating an amount of **data** to be **transmitted** and an amount of **data** already received by said **receiving station**, and to/  
calculate a priority value by subtracting an overhead bandwidth from an entire transmission...

... then dividing said difference  $V_{dd}$  by the value, and to select one or more communication **links** whose priority value is not less than a predetermined value and predetermined in decreasing order... at least one

slave station, and transmitted between said at least one slave station and another slave station by using at least one of: a constant bit rate communication type which is constant...

...variable in data period; and an unspecified bit rate communication type which is variable in transmission speed and data period; wherein said master station comprises: a scheduler for performing scheduling by regularly determining a transmission band assignment including information regarding a transmission timing of the data, a transmission amount, and whether said master station or any one of said at least one slave station is allowed to access said wireless access system; and means for providing said scheduler with communication parameters for the data transmission which are needed by each of the communication types in order to make a request...

...period and priority; wherein said at least one slave station comprises means for providing said scheduler with a communication parameter for the data transmission which are needed by each of the communication types by transmitting communication parameters for the data transmission to said master station by using a request packet in order to make the request for setting the...a part and an entire transmission amount, transmission speed, data period and priority; wherein said master station comprises means for giving the transmission band assignment scheduled by said scheduler to said at least one slave station by using a band assignment and recognizing the...

...indicating a transmission time added thereto; wherein said at least one slave station comprises means for synchronizing a time counter of said at least one slave station with a time counter of said master station by using the transmission...

...said transmitting station is at least one of said master station and said at least one slave station which sends the data, and said receiving station is at least one of said master station and said at...

...to a wireless network; and at least one slave station, which is one or more other wireless access units; wherein said master station and said at least one slave station are on the...

...of transmitted between said master station and said at least one slave station, and transmitted between said at least one slave station and another slave station by using at least one of: a constant bit rate communication type which is constant...

...variable in data period; and an unspecified bit rate communication type which is variable in transmission speed and data period; wherein said master station comprises: a scheduler for performing scheduling by regularly determining a transmission band assignment including information regarding a transmission timing of the data, a transmission amount, and whether said master station or any one of said at least one slave station is allowed to access said wireless access system; and means for providing said scheduler with communication parameters for the data transmission which are needed by each of the communication types in order to make a request for setting a communication link for data transmission, the communication parameters including at least one of a part and an entire transmission amount, transmission speed, data period and priority; wherein said at least one slave station comprises means for providing said scheduler with a communication parameter for the data transmission which are needed by each of the communication types by transmitting communication parameters for the data transmission to said master station by using a request packet in order to make the request for setting the communication link for data transmission, the communication parameters including at least one of a part and an entire transmission amount, transmission speed, data

period and priority; wherein said **master** station further comprises means for giving the **transmission** band assignment **scheduled** by said **scheduler** to said at least **one** slave station by using a band assignment and recognizing the transmission band assignment; wherein a transmitting station and a receiving station between which the communication link is set by the **transmission** band assignment carry out bi-directional **data transmission** according to the **transmission** band assignment; wherein said transmitting station is at least one of said master station and...

...one of said master station and said at least one slave station which receives the **data**; wherein **the** communication **type** indicated by the communication parameter is at least one of the constant bit rate communication type, the variable **bit** rate communication type and **the** available bit rate **communication** type; wherein said **scheduler** comprises calculation means for calculating a difference  $T_b$  between at least one of a present...

...is positive for each communication link; wherein when the difference  $T_b$  is positive for each **communication** link, said calculation means calculates a difference  $V_{dd}$  between a **data** amount parameter included in **the** communication parameter and indicating an amount of data to be transmitted and an amount of band; and wherein when the **difference**  $T_b$  is not positive for each communication link, said calculation means selects at least one...

...at least one slave station, and transmitted between said at least one slave station and **another slave station** by using at least one of: a constant bit rate communication type which is constant...

...variable in data period; and an unspecified bit rate communication type which is variable in **transmission** speed and **data** period; wherein said **master** station comprises: a **scheduler** for performing **scheduling** by regularly determining a transmission band assignment including information regarding a transmission timing of the...

...slave station is allowed to access said wireless access system, and means for providing said **scheduler** with communication parameters for the **data transmission** which are needed by each of the communication types in order to make a request...

...speed, data period and priority; wherein said at least one slave station comprises means for **providing** said **scheduler** with a communication parameter for the **data transmission** which are needed by each of the communication types by transmitting communication parameters for the data transmission to said master station **by using** a request packet in order to make the request for setting the communication link for data transmission, the communication parameters including at least one of a part and an entire **transmission** amount, **transmission** speed, **data** period and priority; wherein said master **station** comprises means for giving the **transmission** band assignment packet **scheduled** by said **scheduler** to said at least one **slave** station by using a band assignment packet and recognizing the transmission band assignment; wherein **said** master station **comprises** means for transmitting, to said at least **one** slave station, the band assignment **packet** with a transmission time stamp value indicating a transmission time added thereto; wherein said at...

...counter of said master station by using the transmission time stamp value transmitted from said **master station**; wherein a **transmitting** station and a **receiving** station between which the communication link is set by the transmission band assignment carry out...

...station which sends the data, and said receiving station is at least one of said **master station** and said at least one slave **station** which receives the **data**. > Basic Derwent Week: 200150



**28/69, K/20** (Item 20 from file: 350)  
 DIALOG File 350: Derwent WPI X  
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0008745012 - Drawing available  
 WPI ACC NO: 1998-287181/ **199825**  
 XRPX Acc No: N1998-225666

**Process cell for use in a process control system - has self-contained process cell that fully specifies its inputs, outputs, state variables and processing logic as well as specifying links to the other cells that provide its inputs**

Patent Assignee: CYBERLIFE TECHNOLOGY LTD (CYBE-N); GRANDSL (GRAN-I);  
 MILLENNIUM INTERACTIVE LTD (MILL-N)

Inventor: GRANDSL

**Patent Family** (6 patents, 87 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1998020418	A1	19980514	WO 1996GB2703	A	19961105	199825 B
AU 199673243	A	19980529	AU 199673243	A	19961105	199841 E
EP 937286	A1	19990825	WO 1996GB2703	A	19961105	
			EP 1996935171	A	19961105	199939 E
EP 937286	B1	20020327	WO 1996GB2703	A	19961105	
			EP 1996935171	A	19961105	200222 E
DE 69620265	E	20020502	WO 1996GB2703	A	19961105	
			DE 69620265	A	19961105	200237 E
			EP 1996935171	A	19961105	
US 6446055	B1	20020903	WO 1996GB2703	A	19961105	200260 E
			US 1999284079	A	19990407	

Priority Applications (no., kind, date): WO 1996GB2703 A 19961105

#### Patent Details

Number	Kind	Lang	Pg	Dwg	Filing Notes
WO 1998020418	A1	EN	73	8	
National Designated States, Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN					
Regional Designated States, Original: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 199673243	A	EN	PCT Application WO 1996GB2703 Based on OPI patent WO 1998020418		
EP 937286	A1	EN	PCT Application WO 1996GB2703 Based on OPI patent WO 1998020418		
Regional Designated States, Original: DE FI FR GB IE IT NL SE					
EP 937286	B1	EN	PCT Application WO 1996GB2703 Based on OPI patent WO 1998020418		
Regional Designated States, Original: DE FI FR GB IE IT NL SE					
DE 69620265	E	DE	Application EP 1996935171 PCT Application WO 1996GB2703 Based on OPI patent EP 937286		
Based on OPI patent WO 1998020418					
US 6446055	B1	EN	PCT Application WO 1996GB2703 Based on OPI patent WO 1998020418		

#### Alerting Abstract WO A1

The process cell has data inputs, data outputs, processing logic, state variable and link data specifying the other cells that provide its inputs. A scheduler triggers the process cells, as a whole to update their state variables. Process cells can comprise a parent process cell that contains child process cells, at least some of which are linked to the parent cell.

Providing the process cell with these features enables it to act independently to update its variables without requiring outside control. The process to be controlled can be broken down into a number of self-contained process cells.

**ADVANTAGE** - Facilitates the modification and enlargement of a process control system since the existing process cells do not need to be modified.

**Title Terms/ Index Terms/ Additional Words:** PROCESS; CELL; CONTROL; SYSTEM; SELF; CONTAIN; SPECIFIED; INPUT; OUTPUT; STATE; VARIABLE; LOGIC; WELL; LINK

#### **Class Codes**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0009/46 A I R 20060101

G06F-0009/46 C I R 20060101

US Classification, Issued: 70610, 70621, 70647

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F02A

**Alerting Abstract** ...The process cell has data inputs, data outputs, processing logic, **state** variable and **link data** specifying the other cells that **provide** its inputs. A **scheduler** triggers the process cells, as a whole to update their state variables. Process cells can...

#### **Original Publication Data by Authority**

#### **Original Abstracts:**

...plurality of autonomous process cells. Each process cell has data inputs, data outputs, processing logic, **state** variable, and **link data** specifying the **other cells** that **provides** its inputs. A **scheduler** triggers the plurality of cells as a whole to update their state. Cell may be recursive and contain child...

...plurality of autonomous process cells. Each process cell has data inputs, data outputs, processing logic, **state** variable, and **link data specifying** the **other cells that provides** its inputs. A **scheduler triggers** the plurality of **cells** as a whole to update their state. Cell may be recursive and contain child cells...

...plurality of autonomous process cells. Each process cell has data inputs, data outputs, processing logic, **state** variable, and **link data specifying** the other cells **that provides** its **inputs**. A **scheduler** triggers the plurality of **cells** as a whole **to** update their state. Cell may be recursive and contain child cells, at least some of...

#### **Claims:**

...input, at least one data output for outputting data dependent upon said at least one **state** variable and a programmable **link** for each said data input specifying a source from which said at **least** one data input receives **data**; and a **scheduler** for triggering said plurality of process cells as a whole to update their state variables whereby each of said **plurality** of process cells autonomously updates its state variables in dependence upon its at least one...

...input, at least one data output for outputting data dependent upon said at least one **state** variable and a programmable **link** for each said data input **specifying** a source from which said at least one data input receives data, said plurality of...

...a model of an autonomous object, at least one data input to at least one **process** cell modeling a stimulus **applied** to said autonomous object and at least one data output from at least one process cell modeling a response of said autonomous object to stimulation; and a **scheduler** for triggering said plurality of process cells as a whole to update their state variables ...upon said at least one data input to each cell using programmable logic to generate **said** at least one data output, updating of said state variables of said plurality of process...

Basic Derwent Week: **199825**